PRUTHVIRAJ MOHITE.

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PROFILE

Results-driven Data Scientist with 3+ years of experience, specializing in machine learning, deep learning, generative AI, data analysis, visualization, and automation. Skilled in building enterprise-grade dashboards, optimizing data workflows, and delivering actionable predictions to support business intelligence and strategic decision-making.

SKILLS

- Programming & Analytics: Python (Pandas, Scikit-learn, Tensor Flow, keras,Matplotlib,Seaborn), MSSQL,PowerBI
- AI Capability: Supervised & Unsupervised Learning (Classification, regression ,clustering),Deep Learning (Tensor flow),NLP, Generative AI (GPT, Hugging face, Lang chain , Prompt Engineering)
- Web & App Development: React, HTML, CSS, Node js.
- Other tools & Platform - Jupyter Notebook, Google Colab, Github, Azure

EXPERIENCE

MDIndia Health Insurance TPA Pvt. Ltd. | Pune, India   **Jun 2022 - Present**
Team Lead – Information & Analytics Engineering

- Performed **exploratory data analysis (EDA)**, outlier detection, and data cleaning using **statistical methods** and Python libraries like **Numpy/Pandas/Matplotlib/Plotly**.
- Evaluated Machine learning models using standard metrics such as ROC-AUC and cross-validation.
- **NLP solutions** using **NLTK** for text preprocessing and sentiment analysis
- Developed deep learning models including **ANN, CNN, RNN, and LSTM** using **TensorFlow/Keras** for time series and sequence modeling project
- Developed and deployed interactive **Power BI dashboards** for operational and financial reporting, integrating data from SQL Server, Schedule refreshes, RLS, Modelling, DAX measures.

PROJECTS

1) Insurance Fraud/Abuse Prediction

- Built an end- to- end fraud detection pipeline for insurance claims provided with claim scenarios. Covering data cleaning ,EDA, encoding/ derived encodings and clustering algorithms to detect fraud/Abuse cases (best fit model – Cat boost /Random forest)
- Daily tracking of the predictions and highlighting the risky claims to the IFD team in reducing the undetected fraud.

2) Policy Comparison Bot

- Developed a context-aware policy comparison chat-bot leveraging Lang chain, Hugging face Embedding's enabling accurate retrieval based QA with a 93% average response relevance across the pdfs.
- Architected an end to end pipeline with a document chunking, semantic vectorization and source – linked answer generation reducing the manual policy comparison.
- Integrated Open source LLMs to simulate production- grade RAG workflows, enhancing scalability for better policy choice according to users perspective.

3) Analytical Dashboards | Power-BI, MSSQL, DAX, M-Query

- Developed interactive Power BI dashboards to visualize policy performance, premium collections, and claims analytics across multiple brokers, enabling data-driven decision-making and performance monitoring.
- Optimized complex SQL queries and stored procedures to efficiently process and transform large-scale insurance datasets, improving data refresh speed and backend performance.
- Designed robust data models with calculated columns, DAX measures, and dynamic relationships to support flexible cross-filtering, drill-through analysis, and self-service BI capabilities.

EDUCATION

- ❖ **MBA (Information Technology and Systems Management) NMIMS Mumbai   (Rank – 74)**
- ❖ **B.Tech (Mechanical) Vishwakarma University, Pune (7.43 CGPA)**
- ❖ **HSC Aabasaheb Patil Jr. College Kolhapur (74.8%)**

CERTIFICATIONS

- ❖ Microsoft Certified: AI-900 Azure AI Fundamentals
- ❖ Microsoft Certified: AZ-900 Azure Fundamentals
- ❖ Microsoft Certified: PL-300 Power BI Data Analyst
- ❖ Microsoft Certified: DP-700 Azure Data Engineer Microsoft*